NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

NTU Academy for Professional and Continuing Education



(SCTP) ADVANCED PROFESSIONAL CERTIFICATE IN AI-DRIVEN ENTERPRISE CYBERSECURITY & DEFENCE

Acquire technical mastery, applied labs and strategic security insights across enterprise security architecture, AI-driven SecOps, Zero Trust identity, application security, data protection, and governance/risk management.

LEARN MORE

57% **increase** in Cybersecurity job postings in Singapore from 2024-2025.

(Source : The Business Times, 2025)

Programme Mode

Part-time: 5.5 months

Programme Fee

Fee before funding: $30,193 (GST inclusive)

*The following are applicable:

- Up to 70% - 95% SWDA Funding
- SkillsFuture (Mid-Career) Credit top-up: $4,000
- SkillFuture Mid-Career Training Allowance

*Terms & Conditions apply

Venue

- NTU @ One North
- Virtual learning

Prerequisite

- Basic understanding in computing and network concept
- Familiarity with scripting fundamentals

askpace.sctp@ntu.edu.sg

https://www.ntu.edu.sg/pace

NTU PACE

Company Registration No: 200604393R

Programme Modules

Applied Enterprise Security Foundations & Architecture Design

Understand core cybersecurity principles, enterprise risk models, network architecture, defence-in-depth and real-world case-based architectural planning.

Zero Trust Architectures: Cloud & Identity Security Mastery

Design Zero Trust models for hybrid environments; deep-dive into identity threats, MFA, Entra ID, Silverfort, BeyondTrust.

Data Protection in the Era of AI & Cyber Resilience

Delve into data governance, ransomware defence, backup resilience, disaster recovery, and business continuity via threat-informed design.

AI-Powered SecOps: Security Operations & Incident Response

Automate threat detection and response using AI; includes SOC workflows, SIEM, SOAR, and adversary emulation labs.

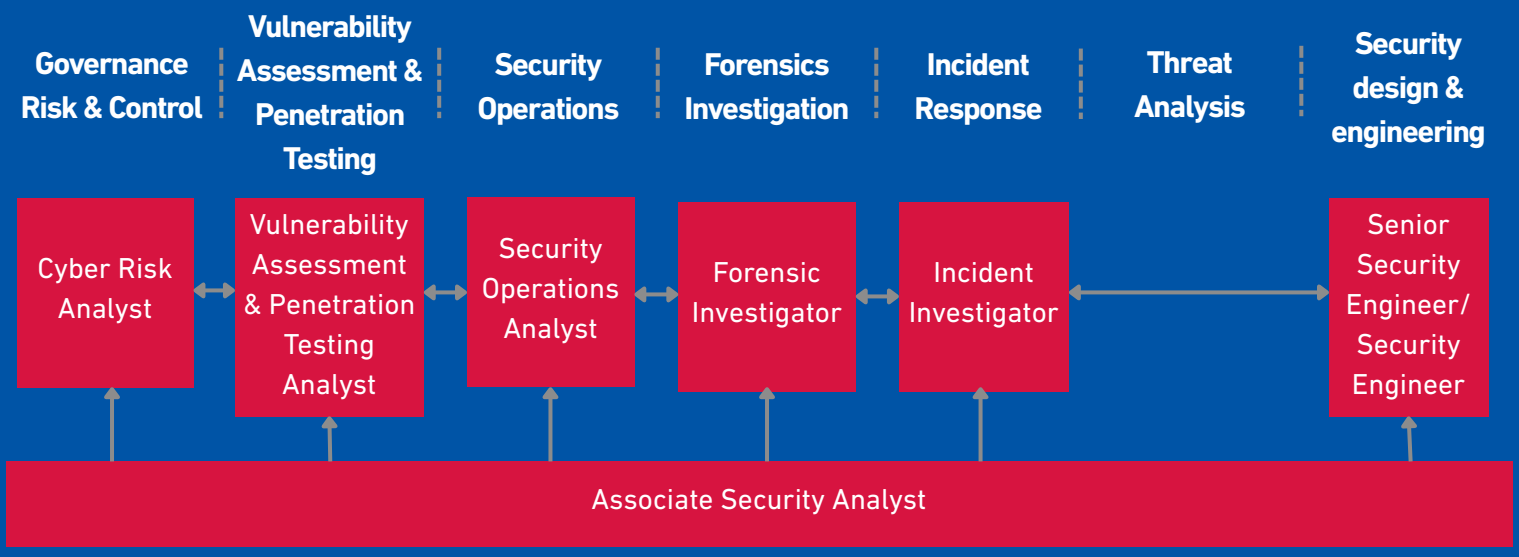
Secure App Development: Web, Mobile & DevSecOps

Secure SDLC principles with real-world attacks, threat modeling, CI/CD DevSecOps, and vulnerability remediation across platforms.

Strategic Cyber Governance: Navigating Risk & Regulatory Landscapes

Explore governance, compliance frameworks, cyber risk quantification, and alignment to MAS TRM, ISO 27001, AVSC.

Unlock Your Future Role



(Source : Skills Framework for Infocomm Technology, 2025)

Unsure if this programme is right for you?

Book a session with our career consultants.

Is your security strategy ready for AI-driven threats?